

DESCRIPTION

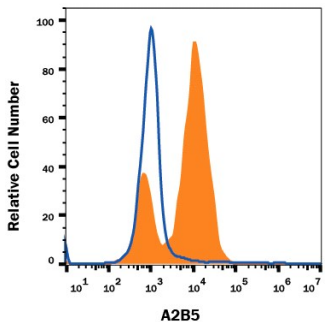
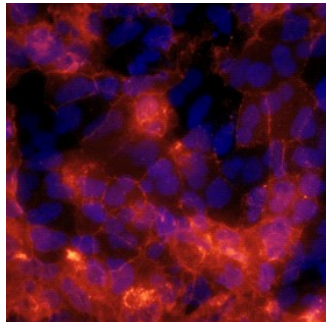
Species Reactivity	Human/Mouse/Rat/Chicken
Specificity	Recognizes the A2B5 cell surface ganglioside epitope found on type II astrocytes, cells involved in gliogenesis, and cells committed to the oligodendrocyte lineage (1-4).
Source	Monoclonal Mouse IgM Clone # 105
Purification	IgM-specific Affinity-purified from hybridoma culture supernatant
Immunogen	Embryonic chicken retinal cells
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	See Below
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p> 	<p>Detection of A2B5 in Ntera-2 Human Cell Line by Flow Cytometry. Ntera-2 human testicular embryonic carcinoma cell line either treated with 10 µM retinoic acid for 4 days (filled histogram) or untreated (open histogram) was stained with Mouse Anti-Human/Mouse/Rat/Chicken A2B5 Monoclonal Antibody (Catalog # MAB1416), followed by Allophycocyanin-conjugated Anti-Mouse IgM Secondary Antibody (Catalog # F0117). View our protocol for Staining Membrane-associated Proteins.</p>	<p>Immunocytochemistry</p>  <p>A2B5 in Ntera-2 Human Cell Line. A2B5 was detected in immersion fixed Ntera-2 human testicular embryonic carcinoma cell line (differentiated with retinoic acid for 10 days) using Mouse Anti-Human/Mouse/Rat/Chicken A2B5 Monoclonal Antibody (Catalog # MAB1416) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgM Secondary Antibody (red; Catalog # NL019) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.</p>
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PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

A2B5 is a cell surface ganglioside epitope expressed in developing thymic epithelial cells, oligodendrocyte progenitors, and neuroendocrine cells (1).

References:

1. Eisenbarth, G.S. *et al.* (1979) Proc. Natl. Acad. Sci. USA **76**:4913.
2. Bottenstein, J.E. *et al.* (1988) J. Neurosci. Res. **20**:291.
3. Suzumura, A. and D.H. Silberberg (1989) Brain Res. **480**:51.
4. Dubois-Dalcq, M. *et al.* (1990) Cellular and Molecular Biology of Myelination, Springer-Verlag, pp. 3.